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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/807,947	05/10/2001	Wolfgang Mehr	010456	9291	
. 7.	590 1 <u>1</u> /14/2002				
Law Office of Karl Hormann			EXAMINER		
86 Sparks Street Cambridge, MA 02138-2216			EASTHOM	EASTHOM, KARL D	
			ART UNIT	PAPER NUMBER	
			2832		
			DATE MAILED: 11/14/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/807,947

Applicant(s)

Mehr

Examiner

Karl Easthom

Art Unit

2832



	The MAILING DATE of this communication appears of	on the cover sheet with the correspondence address				
Period 1	or Reply					
THE	ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE MONTH(S)_FROM to event, however, may a reply be timely filed after SIX (6) MONTHS from the				
mailing - If the p - If NO p - Failure - Any re	date of this communication. eriod for reply specified above is less than thirty (30) days, a reply within the eriod for reply is specified above, the maximum statutory period will apply ar to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	e statutory minimum of thirty (30) days will be considered timely. Individual will expire SIX (6) MONTHS from the mailing date of this communication. Experimental experiments are also become ABANDONED (35 U.S.C. § 133).				
Status	,					
1) 💢	Responsive to communication(s) filed on Sep 24, 20					
2a) 💢	This action is FINAL . 2b) \square This action	on is non-final.				
3) 🗌	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.					
Disposi	tion of Claims					
4) 💢	Claim(s) 3-13	is/are pending in the application.				
4	a) Of the above, claim(s)	is/are withdrawn from consideration.				
5) 🗆	Claim(s)	is/are allowed.				
6) 💢	Claim(s) <u>3-13</u>	is/are rejected.				
7) 🗆	Claim(s)	is/are objected to.				
8) 🗆	Claims	are subject to restriction and/or election requirement.				
Applica	tion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) \square accepted or b) \square objected to by the Examiner.				
	Applicant may not request that any objection to the d					
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.				
	If approved, corrected drawings are required in reply t	o this Office action.				
12)	The oath or declaration is objected to by the Exami	ner.				
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☑ All b) ☐ Some* c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No.						
*S	 X Copies of the certified copies of the priority do application from the International Burea ee the attached detailed Office action for a list of the 					
14)						
a) The translation of the foreign language provisional application has been received.						
15)	Acknowledgement is made of a claim for domestic					
Attachm	pent(s)					
1) 💢 N	otice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152)						
3) 🔲 in	3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)					

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1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claim 12 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The added step of providing contacts is not clear since it appears in claim 7.
- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 4. Claim 5 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. There is no description of the substrate having carbon or germanium, especially one having a dieelectric thereon.
- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 3-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Bartholomew (EP0116702). Bartholomew discloses the claimed invention at pages 6-7, with a poly silicon film having carbon, meeting the claims, being SiC. The dieelectric substrate is silicon dioxide, with

the wafers EE1-EE10, at page 6, sample 1, the substrate. In claim 4, a boron dopant is disclosed at page 8, Example 1. In claim 6, the cap at page 8 meets the claim

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 7-8, and 10-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bartholomew (EP0116702) in view of Beinglass et al., or Amemiya et al. The claimed invention is as noted above, except the metal contacts. The references disclose contacts of metal 35b, 35a, or 13, for the purpose of contacting the resistor in order to employ same in a circuit, such that it would have been obvious to employ contacts for the same reason.
- 9. Applicant's arguments with respect to claims 3-13 have been considered but are moot in view of the new ground(s) of rejection.
- 10. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Bartholomew (EP0116702) in view of Beinglass et al., further in view of Shimamoto et al. The claimed invention is as noted above, except the amorphous nature. Shimamoto discloses rendering a polysilicon resistor amorphous by implanting heavy doses of dopant, at col. 9, line 55-65, col. 14, lines 53-60, in order to optimize the temperature dependence of the resistor. It would have been obvious to render the film amorphous in order to optimize the temperature dependence where each reference is concerned with stable polysilicon resistors.

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11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karl Easthom whose telephone number is (703)308-3306. The examiner can normally be reached on M-Th. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad, can be reached on (703)308-7619. The fax phone number for the organization where this application or proceeding is assigned is (703)308-7722. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

KARL D. EASTHOM PRIMARY EXAMINER